

Subject: Recall of Clockwork Tooling

This letter confirms our telephone conversation of this afternoon, in which your wishes for the recall of the clockwork tooling were discussed. As mentioned in the conversation, we have this morning received instructions from your contractual section regarding the disposition of the same tooling. Since the tooling has not yet been turned over to us by the subcontractor upon completion of the contract, we feel that disposition of these items along the lines outlined by your contracting office should not be made. In the absence of any other instructions from your office, we shall therefore dispose of the tooling as outlined in your letter of June 22, 1955, and as confirmed below.

We have called Thomaston Special Tool Company and have arranged to have delivery of the clockwork tooling made simultaneously with the final delivery of the production and training mechanisms; the date of this delivery will be approximately July 1. Upon receipt of this tooling at the Reservation, the writer will join Mr. Forthofer of Universal Match Corporation to inventory and sign over the tooling to UMC's custody. Storage of the tooling will very probably be made at least on a temporary basis in the Miscellaneous Building here at the Reservation.

In view of the contractual responsibility involved and the necessity of obtaining a clear line of demarcation in this responsibility, it is of the utmost importance that the responsibility of Arthur D. Little, Inc. be terminated upon the satisfactory transfer to UMC custody.

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Sanitized Copy Approve	d for Release 2011/08/22 : CIA-RDP78-	03642A002500040004-6 STA ⁻
	-2-	June 27, 1955
your contacting your present situation so actions. We feel the	ned in our telephone conversation r contractual section people and that they may be fully cognizen nat this would be the simplest an	informing them of the t of our impending d most direct measure
regards custody and Should the of the clockwork too	ere be any change in your wishes cling, we would appreciate immediate of the contract termination,	as to the disposition ate notification via
regards custody and Should the of the clockwork too telephone, and in vi	contractual completion. ere be any change in your wishes pling, we would appreciate immediate of the contract termination,	as to the disposition ate notification via confirmation of any

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Subject: Request for Additional Funds

This confirms a telephone conversation between Mr. McCeney and the writer on May 26, 1955, during which the requirement of additional funds for completion of the clockwork delay program was outlined.

the origin of this fund As discussed with requirement lies in an estimate, made by the writer, dated March 26, 1954, in which funds for the various items of the clockwork project were listed. In this estimate, however, the additional cost items for the cocking devices and positive starters were estimated for only 100, rather than 1,000 units. The requirements for special adapters were completely omitted. It is upon this error that this request for funds is based.

Following is the breakdown and summary of funds required:

#	900	Cocking Devices @ \$.40 each	\$360.00
*	900	Positive Starters @ \$1.40 each	1,260.00
•	1000	Adapters @ \$1.60 each	1,600.00
-	120	Additional Adapters @ \$1.60 each	192.00
			\$3,412.00
٠		Funds on hand as of May 27, 1955	1,350.00
		Funds required	\$2,062.00

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	54 under Furchase Ord		OT A T
** 120 units authoris	tod by	r training purposes.	STAT
It is therefore available prior to 30 d		sum of \$2,100.00 be made purpose.	
		purpose.	
	Tune, 1955, for this	purpose.	STAT

Acting Director

Sa., ** *	anitized Copy Approved for Release 2011/08/22 : Cl ا	A-RDP78-03642A002500040004-6
	·	Conty Of
		STA
	HFK:mpk	April 4, 1955
		STA
		QK-15-529
•		<u>C-59411</u> -
	Subject: Packaging for 24-Hour	Delay Mechanism
	Both during the writer's vis and visit to the Reservat subject of the unit packaging of the 2 was discussed and a single prototype w	sit to your office on March 30th, tion on April 1st, 1955, the STA 24-Hour Clockwork Delay Mechanism was reviewed.
	the prototype and requested that it be of the necessary components. This act	t to the Reservation, approved STAT implemented by the purchase tion has been initiated.
	The specifications for the t from the George D. Ellis & Sons Compar are as follows:	tear-strip cans, as ordered
	Size: Std. 4" 0.D. (3-31/32" (3.128" body height).	I.D.) x 3" net inside height
	Material: 0.015" stock, 1.25# hot	t dip tin plate.
	Details: a) Tear strip one end b) Open on tear-strip	only.
	c) Both closures compo	ound lined for permanent seal.
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	-2- Ag	oril 4, 1955
	d) Brush inner tear-strip score with vi e) Use extra-heavy tear-strip keys, bot	
Test:	Test for tight seams and top closure in prior to finishing.	hot water
<u>Finish</u> :	Degrease and prime with wash primer MIL- (Ships) or equivalent. Paint one (1) co Federal Specification TT-C-595 No. 14150 lusterless green lacquer, per Chemical C Rocky Hill, Connecticut, No. 12-889.	at with , air drying
	Very truly yours,	
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		QK-15-5	329	() ()
	Subject: <u>QK-15-52</u>	C-5941	<u>1</u>	
	In view of the interest water following the production of the writer's trip	ith which both action and assembly we are forwarding h	e merci + h	STAT
	Ver	ry truly yours,		ST
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	Attachments 4			:
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MEMORANDUM	- -

To:		Case: QK-15-529 Date: February 9, 1955 Page: 1 STA	۱٦
		Subject: Telephone Call to New Haven Clock & Watch Company	
ang l	nij)	As mentioned in the writer's Trip Report, dated February 9, New Haven was contacted this morning via telephone to obtain a confirmation of their estimated delivery date of March 15, 1955, for the remaining 1,003 movements under this case.	
alm	12)	That tentative date was confirmed by the Assistant Chief Engineer	١٦
	, ,	, who acts for the Chief Engineer, in this case. STAT	,7
B B	3)	In addition to this confirmation, it was also agreed that the 300 movements completed will be immediately shipped to Thomaston, in addition to all of the 24-hour dial plates. Thomaston has been requested to inform us when this shipment arrives so that the actual restarting of the Thomaston production line can be closely followed.	
	4)	Needless to say, New Haven's performance during the next month will be very closely followed.	
	5)	The Client's Project Engineers for this case, Mr. Hahlen and Mr. Chevally, were informed of these developments and New Haven's final commitments via telephone this morning. We are to keep the Client informed as closely as possible of the general developments, in particular, the production rate that Thomaston can achieve during the coming months.	
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FORM NO. 101

From

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To:	Case: QK-15-529 Date: February 9, 1955 Page: 1 C-59411	STAT
	Subject: Trip Report - Thomaston Special Tool Company	

On Monday, February 7th, the writer, after visiting New Haven Clock & Watch Company in New Haven, visited the Thomaston Special Tool Company in Thomaston, Connecticut, who are currently manufacturing the case and accessory parts for the 24-Hour Clockwork Delay Mechanism. Very little needed discussion during this visit except the following points:

- 1) Thomaston desires that partial deliveries of watch movements be made by New Haven so that the Thomaston production line may again be started.
- 2) Thomaston also wishes that the entire shipment of 24-hour dial faces be sent to them, for the same reason as above.

Thomaston has for some time had the greater part of the manufacturing and sub-assembly work done for this project. With the exception of gasket changes and a major alteration to the back plate cap, they for some time have of necessity remained idle awaiting delivery of movements from New Haven. Throughout the entire job, relationships with Thomaston and ADL, in contrast to those experienced with New Haven, have been excellent.

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FORM NO. 101

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MEMORANDUM

To:	

Case: QK-15-529 Date: February 9, 1955 Page: 1 STAT

C-59411

Subject:

Trip Report - New Haven Clock & Watch Company

On Monday, February 7, 1955, the writer visited the plant of the New Haven Clock & Watch Company in New Haven, Connecticut, and talked with Messrs. Denegre, Marches and Field regarding the present status and positive delivery time of some 1,003 special watch movements for this case.

A previous telephone call on Friday, February 4th, to Mr. Marches, the Assistant Chief Engineer, indicated that the organization for this case at New Haven was in a great deal of confusion. The visit on Monday confirmed and emphasized this belief. The following points are made to describe the conditions existing:

- 1) ADL received a set of the Client's drawings which had been previously submitted to New Haven for their inspection and review. Numerous revisions were indicated on these drawings. Investigation of the accompanying New Haven drawings however showed that many of these corrections had been made also to the master drawings held by New Haven; this points out that the original drawings submitted to ADL by New Haven were apparently not brought up to date before they were sent to us for transcription. As a result, considerable work must be done in drawing revision to bring them again up to date.
- 2) During the previous telephone discussion with on February 4th, STAT it was indicated that a delivery date for the 1,003 movements was to be March 1, 1955. During the visit however on February 7, it became apparent that this is not a realistic date. A spot inventory of the movements, made by their production foreman and the writer, indicated that a total of 811 units were on hand in various stages of assembly and test.

 When questioned about the remaining 192, neither the production foreman, nor Mr. Denegre could give a plausible explanation.

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- 3) Although an inventory of December, 1954, was mentioned, the only inventory that was available and presented for the writer's inspection was dated December 27, 1953. This indicated that little or no inventory control has been exercised on this material for some time. This belief was further borne out by the fact that there was later considerable discussion between the production foreman and the parts foreman as to whether or not parts previously ordered had ever been manufactured and supplied. The production department said they had been ordered but never supplied; the parts department, that they had been supplied and apparently lost elsewhere.
- 4) On most of the units seen during the spot inventory, the new hands and hour drums were installed; these new parts have an excellent appearance and apparently will well satisfy the need for more accurate reading and less reflectivity of the blackened surface. This progress was the only bright spot in the entire discussion.

From	HFK	 	

FORM NO. 101

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5)	As previously mentioned, Haven personnel, and a rwas carried on in an att currently believed by alby the Chief Engineer, date for these movements	ather lively empt to deci l New Haven	discussion de what we personnel that March	on, in the wr as to be done , and tentati h 15 is a rea	iter's presend next. It is vely promised listic delive	e, Tystat
6)	The writer shall call the exact status of the date for production deli New Haven to make a part the 300 movements which delivery of the hour dia hand Thomaston should be	production a very. In th ial delivery are on hand ls will be a	nd at that e meantime to Thoma and have lso reque	t time obtain e the writer ston Special been complete sted; with th	shall request Tool Company od. Complete lese parts in	
7)	As a matter of record th figures obtained during			eflects the s	pot inventory	
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	Ready for de Awaiting run To be repair To be re-ass Awaiting ret	-in ed embled	300 330 108 10 63			
	Total accoun	ted for		81	1	
	Missin	g at invento	ry	19)2 -	
men rea fai str wil in tha	The writer believe en that delivery must be t for delivery that they lized that it is impossiblure to meet this deliver ong stand and, if needs be provide sufficient force. In view of the pass addition to the present detany future work along tufacturers other than New	made in the now take on le to pose a y date; on te, a strong e to induce t unfulfille isorganizatione of a	very near shall be my threat he other written s New Haven d promise on, the w	future and to very closely or penalty a hand, it is in tatement of of to meet this s on the part riter strongly	that any commit followed. It against them for elt that a ver dissatisfaction delivery date of New Haven by recommends	is or ry n
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MEMORANDUM

To:						59411 59416	 Date:	Fahmianv	33.	1955Page:	1	STAT
10.					Subjec	59427		of the Mee	ting '	with the (
	1)	fro Mag	m the	ny, February Client's o Sox and the	ffice visi Stinger ca	ted th	e Reservat	tion to rev	iew t	he clockw	ork,	
	2)	Clo	ckwoi	k, C-59411	(QK-15-529	2)						
		a)	J⊷Fe	der Mechani	sm							
			(1)					be rebuilt il do no fu			these	;
			(2)	possibly i the order	n sealed of two to	cans, a three	t some fut months her	ture date ence.	stima	ted to be will i	in	[®] STAT
	•		(3)		inal Repor	rt for	the J-Fede	at it was f er mechanis n plans.				STAT Le
		ъ)	24-l	lour Mechani	an							
			(1)		ts of the	24-hou ne ne ce	r mechania	nce of obta sm instruct d time for	ion s	heet as s	oon a	
			(2)	24-hour me	hich are the chanism.	thought These	by the Ci	sist ADL in lient to be ctors" will echanism wi	impo	rtant for .ude such	the items	3
			(3)	Clock & Wa	tch Compai ent produc	ny appe	ars to ag	rest in the ain be in t that ADL k	roubl	e with th	0. 24-	
	3)	Mag	met I	30x, C-59416	(QK-15-5/	<u>11)</u>						
		a)	with has	is to packs the tempor been develo isfactory, t	pary packa	ging sp point	ecification that the	ons. As so specificat	on as	the pack	aging	g
From	HFK	•										
FORM NO						-						STAT

-2-

February 11, 1955

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b) The forming pin sticks are no longer to be used with this unit; all existing sticks shall be removed and destroyed.

- c) The manufacturing inspection for the Magnet Box shall include a section for the inspection to detect stripped threads in the bottom cover.
- d) The finished rough draft of these specifications including packaging and packing shall be transmitted to the Client during the writer's visit in the week of February 21.

4) Stinger, C-59427 (QK-15-558)

- expressed interest in the coming assemblies of one hundredSTAT twenty four (124) units under our Case 59427, and asked that he be informed when this production is in progress so that he may visit the Reservation at that time.
- b) requested that reference be made in the previous Stinger STAT Final Report of the impending production of 124 units.

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•		lugust 17, 1954	
		K-15-529-AB	
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Pir. Danbrunt authori	hone conversation on August zed the change from slotted for use on the front and ba mechanism case.	-hand to	
Philips head screws the AB 24-hour delay	zed the change from slotted for use on the front and he	-head to ck plates of	
Philips head screws the AB 24-hour delay	zed the change from slotted for use on the front and ba mechanism case. ted increase in cost for pr	-head to ck plates of	
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c ? .				STAT
			August 17, 1954	
				STAT
			QK-15-529-AB	
	· ,	Subject: Minutes of Thomaston		
	present status as Mechanism. The	nd immediate future of following notes outli ermined for both Thom	riter met with Fool Company to discuss the of the 24-Hour Clockwork Delay ine the topics discussed and the maston Special Tool Company and	STAT STAT
	1. Revised Cap:	Plate" and "Cap" reto Thomaston and au	Ob-418 and 210b-435, "Rear Cover espectively, have been submitted athorization has been given to a of these caps and revision of modate the caps.	
		Action: Thomaston:	produce 1000 caps and revise	
		ADL:	plates. purchase necessary 0-rings and forward to Thomaston.	
	2. Finishes:	good paint bonding Present zinc finish	having difficulty in obtaining on both front and rear plates. is apparently too smooth; investiish, probably of cadmium, is	•
		Action: Thomaston: ADL:	check with commercial electro- plating firm for information. check with paint manufacturer for advice in use of this par- ticular enamel.	
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Mr. A. L. Weast

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-2-

August 17, 1954

Both Thomaston and ADL to confer when information is available. (No plating has yet been done on the 900 remaining cases.)

3. <u>Positive Starter</u>: Thomaston has all parts on hand awaiting final instructions to begin assembly of 900 remaining units. Drawings are not up-to-date, however.

Action: ADL to make necessary revisions to drawings, using sample parts for model, and send prints to Thomaston for checking.

4. Cocking Plug: Thomaston has 75% of parts on hand, but must produce new caps for the revised unit. 1000 units to be made.

Action: ADL to make necessary drawings of revised unit, using prototype as a model, and send prints to Thomaston for checking.

Previous experience shows that wire lugs on case tend to turn under load and loosen gasket retaining screws with which they are attached to the case. This is a potential source of gasket failure. Redesign of lug is advisable, making use of bent "dog-ear", as shown in the accompanying sketch to prevent turning.

Action: ADL to redesign lug and send drawing to Client and Thomaston for information and checking.

NOTE: This item has <u>not</u> been approved for the present production lot. To be incorporated in future designs.

6. Gaskets:

New flat gaskets for front and rear cover plates, adapter, and both safety- and stop-start spindles are to be made.

ADE is to specify Buna-N compounding.

Action: ADL: send Buna-N compounding specification and revised gasket drawings to Thomaston by August 18, 1954.

Thomaston: to procure new gaskets for 1000

Thomaston: to procure new gaskets for 1000 units.

7. Shipping Plug: Thomaston has been authorized to enlarge the slot in the existing shipping plugs to equal that in the revised rear plate cap, i.e., .125" wide by .093" deep.

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August 17, 1954

This change of slot in both parts allows use of combat knife or other heavy blade to force removal of plug or cap without a wrench.

Action: Thomaston to enlarge slots in and reblacken 1000 plugs.

NOTE: This is an extra-commitment item; no exact cost has yet been established, although cost is estimated to be less than \$75.00.

8. Adapters:

Thomaston has all parts on hand but has not begun assembly. Assembly to be made concurrently with mechanism and case to utilize manpower more efficiently. ADL has agreed to this procedure. Large "corprene" washer on the adapter is to be scrapped, replaced by "O"-ring. ADL to advise if second washer can also be scrapped and replaced by commercial "O"-ring.

Action: ADL to bring adapter drawings up-to-date.

Purchase and install "O"-rings after delivery of adapters. ADL has agreed to purchase production "over-run" (all adapters produced in excess of 1000 basic order) for purposes of ADL's and Client's destructive testing. Purchase price to be that already quoted and approved.

9. General Assembly:

- a) The use of Philips-head screws, in place of the present slotted-head screws for the front and rear plate fasteners, was discussed. Advantages offered are twofold: (1) Faster assembly, with less chance of scratching and gouging, by use of air-drive torque-limiting screw driver (2) better control of torque used to seat screws. It is estimated that change-over to Philips-head screws will cost approximately \$90.00 for parts and \$10.00 for plating and blacking, a total of \$100. The Client's opinion on this item is to be asked before Thomaston is advised of any action to be taken.
- b) Minimum, and possibly maximum, torque setting for front- and rear-plate screws must be determined.

 ADL to establish and advise Thomaston.

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-4-

August 17, 1954

- c) Trip-lever coil spring torque, expressed in terms of the number of coil-turns taken up on the spring, must be determined. ADL to establish and advise Thomaston.
- d) It was pointed out that the final adjustment of the assembled mechanism must include a correction of the minute hand so that it coincides exactly with the dial "FIRE" marker when the firing linkage trips. Thomaston recognizes this fact and has accepted the responsibility for making the adjustment.
- e) It was pointed out that the surface of the trip lever which rides the hour drum is a very important factor in determining the reproducibility of the mechanism in operation. Longer-than-ordinary tumbling of the trip lever during the finishing operation is necessary to reduce the probability that any burr or irregularity exists on this rubbing surface. Thomaston has agreed to this procedure of finishing.
- f) The use of a sealing compound, Permatex #1 (a hardening grade), has been recommended for sealing of: (1) Safety and start-stop adapter threads (2) Front- and rear-plate screw fasteners. Thomaston has agreed to this procedure.
- g) The use of Dow-Corning DC-11 Silicone Grease has been recommended as both a sealer and lubricant in the safety- and start-stop spindle glands. Thomaston has agreed to this procedure. ADL shall provide the DC-11 and information regarding amount and application.
- h) To test die-castings for flaws, such as cold shuts and porosity, <u>Thomaston</u> recommended that all case-castings be tested underwater with an internal pressure of 20 25 psig for at least 2 minutes.

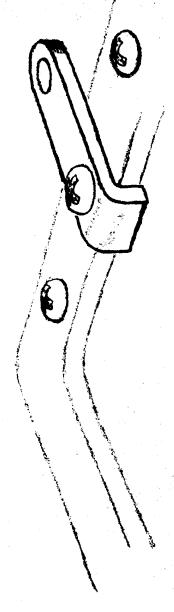
 <u>ADL</u> concurs and shall incorporate this procedure into the specifications.
- i) The citation of Federal, MIL, JAN and other government / specifications for materials and finishes used in the manufacture of this device requires that sub-contractors

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	-5-	August 17, 19	54
the sch Tho lar	meeting was more productive of action sundoubtedly was the prime result of past few months by both parties concereduled completion date of January 1, 1 maston felt that this was a reasonable work. ADL's expediting of action item	experience accumulated during rned. The writer mentioned 955, for this program, and target date for their particles within the next rest.	ate;
40	addi to meating this target date a real-	lty.	
	Very truly	yours,	STAT

Enclosure HFK:mpk

PROPOSED ALTERATION OF WIRE LUG





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			August 10,	1954
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•			QK-15-529-A	<u>.</u> B
	Subject: Messrs.	Minutes of Meeti	ng with	 OT 4-
	On August 4 and 5, 1954	1		STA
	notes reflect the decis	tion to discuss	the AB program: the follow	STA owing STAT
	24-Hour Delay Mechanism	<u>.</u>	8 - 5 D	
	24-Hour Mechanism h Myvalube A (Convalu oil in this mechani basis the 900-odd remaini for the lubrication	ave confirmed the beat at temperature approved use of a units to be a tests is to be	ests recently completed e original results which equal or superior to FA; es as low as -45°F. On Myvalube A as the lubric essembled. An interim re- forwarded.	showed #434 K this ant for STA
	has been completed gaskets be made of be redesigned to ma concurred and appro-	evaluation progrand as a result of Buna-N material of a Buna-ved procurement of	ram for the 24-Hour Mechathe writer recommends the and that the back-plate of new gaskets. An interpretation program is to be	anism at all cap STAT
	3) Final agreement was	made as to the	contents of the final pac packaged in a tear-strip	kage
	a) Clockwork Mech b) Winding Knob/ c) Cocking Plug/ d) Adapter/	g) ; h) s	Coupling Base Primer / 20 feet of wire / Small tube of obscuring / compound	· oK
BEV (BATE BY TYPE O/	r/ i)]	Instruction sheet /	
CLASS M P	. Ort		no wrench	
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obscuring compound co l' long collapsible t	action of the rev	August 10, 1954 back. The size of the approximately 1/2" 0.D. x cuminum or lead.
obscuring compound could be a long collapsible to a long collapsible to a long a long collapsible to a long co	ncluded in this pontainer is to be tube of either all action items action of the rev	pack. The size of the papproximately 1/2" O.D. x cuminum or lead.
obscuring compound could be a long collapsible to a long collapsible to a long a long collapsible to a long co	action of the rev	e approximately 1/2" O.D. x
a) Authorize produ	 action of the reg	are as follows:
	ary O-rings.	rised back-plate cap and
b) Commence product 1/32" thick.	ction of revised	Buna-N gaskets of material
satisfactory ar	ad authorize rele	Company that Myvalube A is asse to Thomaston Special "ments remaining."
commercially av gaskets on the gasket used to	vailable O-ring g adapter, with th cushion the M-34	ng a direct substitution of askets for the present flat e exception of the single detonator. This latter terial as originally
available sub-m	iniature O-ring	ct substitution of commercial gaskets for the positive standard from the promise of the promise
		vestigation of the 24-hour ished low limit of -45°F and
J-Feder Program		
approximately 30% of the producibility. This 30% and low temperature tests available at an early dat	Feder Clockwork; entire lot can b is to be expedit and pushed to c e for the Client	s of room temperature timing these results indicate that a said to be capable of reed through the remaining higompletion to make these item's use. Arthur D. Little, I
is also to resubmit the w	ritten portion of the corrections	the J-Feder instruction previously agreed to among
as may be deemed useful t	o field personne	such other "gems of wisdom" l. It was pointed out to hree (3) pages of standard

, .	., .,		RDP78-03642A002500040004-6 STA
		-3 -	August 10, 1954
	cheets for these mon	shall design and provements; the Client shal	ovide the correction & STA
		ets, including illustrat	
			tions.

/mpk

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Garitized Copy Approved	d for Release 2011/08/22 : CIA-RDP78-03642A002500040004-6	O IIA
	Underen	STAT
JPS:PDW	July 12, 1954	
		; ;
	• 7	STAT
	QK-15-529-AB	
	fice with regards to Work Order QK-15-529-AB. At that sions were reached:	STAT STAT
	is to obtain approximately 150 c.c. of cation analysis. This analysis will be run either	STAT
expeditious. 2) Ad movements lubricated wi over the temperature rafirm the results of our	ere is to be included in the unit pack for the 24-hour	
4)	are to confer regarding who instruction sheet and calibration chart.	STAT
If any of t us at your earliest con	he above does not meet with your approval, please notif	y
	Very truly yours,	
·		STAT
GOMP OSE OFF SE TYPE O	2/	

cc: H. F. Knight

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	TDC ammle	Tul. 4 1051	<u>!</u>
	JPS:mpk	July 8, 1954	!
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	·	<u>QK-15-529-AB</u>	1
	This is to confir telephone conversations with	m the decisions reached in h your on July 1	ST
	and July 7, 1954. At that	time it was requested by him) ,
•	the two types of lubricants		
	FA #434 and Myvolube oils, to the previous runs. This	in a temperature range similar is to be done to corroborate	
	the previous tests. It was	pointed out that this would eks delay in the program, but	:
	it was felt by	that these tests are important	ST
	enough so that this must be	¬,	1
		e above, approval for the re- by Thomaston for the 24-hour	
	mechanism was given. If an	y of the above does not meet	:
	with your approval, please possible convenience.	notily us at your earliest	
		Very truly yours,	•
			STA
			4 1 4 1
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	Hamistron Ostertag Al	D. STAT
	· ,	
HFK/mpk	June 15, 1954	
· · ·		STAT
Subject:	QK-15-529-AB Tooling Inventory for lockwork Delay Mechanism	
In accordance with	a recent request by of tooling for the 24-hour clock-	STAT
work delay mechani	sm is forwarded for your files.	
	Very truly yours,	s
Enclosure: One li	st of two pages	
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ORIG COMP 056 OPI 57 ORIG ULASS M PAGES 3. JUST NEXT REV	REV CLASS AUTH: HR 10-2	



Form Tools

,	0	1 3 mm 4 mm 5 mm 1 mm 1 mm 1 mm 1 mm 1 mm 1						
.1	for	Adapter Body	8			4.4		1668-1
1	for	Adapter Strik	er	13,77				1668-2
1	Ħ	Cocking Device	e disti				1.0	8681
1	11	Plug					1.1	2651
1	**	Cap 😘					i.e.	1628-1
1	Ħ	Packing Nut						1684-2
1	*	Adapter						1687-1
1	11	Adapter				and .		1684-1
1	*	Knob						1684-4
1	81	Packing Nut				1. gm		1687-2
1	**	"rip Lever St	ud					1614-1
2	#1	Striker	(Cut-off	and	form)			1604-1
1	Ħ	Sear Stop Pin						1616-1
2	11	Latch Pin	(Cur-off	and	form)	•		1612
1	11	Sa ety Pin						1625-1
]	Ħ	Shaft						1.684-3
					: 4		!	1004-7

Fixture

For jig boring and tapping case

1 - 7/16 20 NF hole

1 - 7/16 36 NF hole

Also spot face same

, , , , ,	a for recease 201 mod	122 . CIA-RDP10-03	642A002500040004-6	9111
			Hanwarstrone	TIME TO
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HFK: mem			May 27, 1954	
				STAT
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			QK-15-529-AB	
Enclosed, fo project engineer in ch	r the inspection a	nd general infor	mation of your	
able from Thomaston Sp	ecial Tool Co. of	the AB adapter a	orototypes avail- nd cocking device.	
During a rec	ent visit to the r	eservation,	expressed	STAT
concern regarding the was based on the fact	shape of the adapt	er firing nin no	nte this some	
designed, reduttes an	extremely snarp st	ab-action firing	nin for reliable	,
performance. It will requirement satisfactor	rily.	enclosed prototyr	oe meets this	*
The adapter	prototype has been	thoroughly check	sed against both	
the M-34 detonator and and end clearances. The	the clockwork case	e for both proper	r thread mating	
Trom one onread length.	. has corrected in	terference neovic	Landing of the control of the contro	
as required for a good	mates fully onto the seal. The tolerar	ne adapter, compr nces for the 7/16	ressing the gasket	•
thread are being reduce clearance. No other di	e to insure interc	thangeabilitz and	proper diametral	
momascon's redesign of	ne cocking device, the original lock	C-type cocking de	wice submitted to	
new prototype represent	randum dated Janua S a more practical	ary 14, 1954. We	believe that this	
operational problems of new unit, with a brass,	the cocking device	e than did the n	reviewe unit This	
your approval.	radier dian an at	unitrium, nead is	recommended for	
	the same of the sa	Very truly	vours.	
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		April 30, 1954	
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		DRIC GLASS M PAGES PAGES	
		1957 NEXT NEV AUTHI NE 10-5	
	Subject:	Proposal for the J-Feder and 24-Hour Delay Mechanism	
		Program - QK-15-529-AB	
	In accordance	e with our telephone conversation of April 14, 1954, o	our
	request for funds	on work order QK-15-529-AB is hereby withdrawn. The	l
	following is our	proposal for a continued program of research and devel Feder and the existing 24-Hour Clockwork Delay Mechani	isms.
	opment for the s		
	Objectives		
	The primary	objective of this program is to provide a basis for	
	continued research	h and development for both the J-Feder and the existing	ng
	24-Hour Delay Med	hanisms along the general lines of attack outlined by, in memoranda dated July 28 and December 4, 1953.	
			017
	Continued to	esting and evaluation of both the J-Feder and the 24-He	our
	the developmenta	be continued at the facilities of Arthur D. Little, Inc. production work already committed for the latter uni-	t.
	will be continued	i on a sub-contractor basis by New Haven Clock and Water	ch Co.
	and Thomaston Sp	ecial Tool Co.	
	The ultimate	objectives of this program will be accomplished when	the
	following are acl		
	a) Ewalneti	on and report thereof for the J-Feder Delay Mechanism	
•	a) Evaluation perform	ance characteristics and limitations, and	
	•		
	b) The com	pletion of final Specifications and Drawings, based on ults of the testing and evaluation program outlined he	rein,
•	for the	existing 24-Hour Delay Mechanism, and the presentatio	n of
		Report thereof.	
	Introduction_		
	3	in 1951. has engaged in a pro	g ram STAT
	Since early	ay research and development which had, as its primary	
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April 30, 1954

the review of the U. S. Navy Ordnance Department Demolition Firing Device Mk 3, its adaptation to a longer time delay period and the procurement of manufacturing facilities to produce components for the altered device. In conjunction with the Automatic Temperature Control Co., the original assembly manufacturer, New Haven Clock and Watch Co., the original watch movement manufacturer, Leeds and Northrup Co., Thomaston Special Tool Co. and your own project engineers, the Mk 3 Firing Device was altered in many ways to meet the desiderata laid down by your office.

The procurement of production facilities for the altered Mk 3 device, now redesigned as a 24-hour delay mechanism and designated by us as the AB mechanism, was a time-consuming phase of the initial development. The original assembly and movement manufacturers, Automatic Temperature Control and New Haven Clock and Watch Companies, were somewhat disinclined to renew their wartime efforts in this direction, as were many other firms which were approached with this task in mind. Several watch movement manufacturers flatly refused to become involved in the project of a movement development, primarily on the business basis that there could be no promise of large production lots involved in the assignment. During the early part of September, 1952, however, New Haven Clock and Watch Co. stated that they would undertake the redesign and production of their "pocket" watch movement for the project. Thomaston Special Tool Co. had earlier indicated that they would accept the assignment of the case and accessory development and production.

The great majority of time between procurement of manufacturing facilities and the present has been occupied by the process of assembly redesign, based on the experience of the sub-contracts and test results from ______, and the necessary tooling-up to translate these redesign items into actual components. This latter process, handled entirely by New Haven Clock and Watch Co. and Thomaston Special Tool Co., was conducted at an extremely conservative rate until the middle of 1953, at which time the overall AB design was deemed satisfactory in its major conception. At that time the sub-contractors were instructed to expedite their respective tooling. This process was sometimes severely hampered by the relatively low priority assigned the project, in relation to their normal manufacturing schedule, by New Haven Clock and Watch Co.

During the period mentioned above, research projects were conducted , to determine the general operating characteristics of the so-called "commercial dollar watch" movement under various conditions of lubrication and temperature. The results of these investigations, in conjunction with recommendations from such sources as Leeds and Northrup, the National Bureau of Standards and both lubricant and watch manufacturers, were used as an additional basis for the redesign of the New Haven movement to suit our purpose. It is worthy of note here that the opinion of all whom we consulted on the subject was that satisfactory lubrication of watch movements for operation over a wide temperature range was a problem having only a compromise for an answer, there being no known lubricant at that time which could singly provide all the desired characteristics for the purpose outlined. The evaluation of movement performance under various lubrication and temperature conditions still continues, with the field now reduced to the Frankford Arsenal oil #434 and Consolidated Vacuum Products Corp. "Convalube A" (previously called "Myvolube A").

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Sanitized Copy Approved for Release 2011/08/22: CIA-RDP78-03642A002500040004-6 **STAT** April 30, 1954 A pilot production of 89 AB mechanisms was received from Thomaston Special Tool Co. during the latter part of 1953 for the purpose of test and evaluation prior to the writing of specifications and the authorization for final assembly of the 900-odd units remaining in the developmental STAT order. This evaluation program is now in process at the Inc., facilities. During April, 1953, some 90 J-Feder 21-Day Clockwork Delay Mechanisms were received from your office, and a phase was initiated to overhaul and evaluate them for performance characteristics. This phase was not considered in the original assignment of the over-all program; it was introduced, however, since it by nature was closely related to the entire AB assignment. The scope of the J-Feder phase grew to include the design and procurement of an adapter, the design of a shipping plug and wrench, the investigation of a wet-use package, and the design, procurement of material and planning for a unit packaging program for this mechanism. The evaluation of the **STAT** J-Feder performance and its packaging is now in process at the facilities. As a result of the experience gained during the conduct of the program outlined above and the progress made to date, it is proposed that this program be continued along the following lines of attack. Scope a) J-Feder Delay Mechanism Phase I, J-F 1) Completion and submission for your review of sketches and recommendations for the J-Feder Instruction Sheet. 2) Completion of repair of some 5 movements having broken mainsprings; readjustment of some 7 movements to bring their operation up to a satisfactory standard for evaluation. √ 3) Completion of the re-timing and rate-setting of all movements in the horizontal position at room temperatures. 4) Rechecking of operating characteristics at room temperature, -20°F and +120°F, as outlined in the original test program dated July 28, 1953. The thermal plunge, temperature cycling and test sequencing are to be eliminated from this agenda. It is estimated that Phase I, J-F, will require three months to complete, although procurement of new mainsprings for the damaged movements may require an additional month. This contingency will delay only those movements on which repair work was to be done.

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1) Completion of individual calibration sheets for each movement, based on the data collected from performance testing at room, low and

Phase II, J-F

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April 30, 1954

high temperatures. This can be accomplished at no appreciably greater expenditure of time and funds than would be required by statistical evaluation, since it would require only transposition of data from the test results to individual sheets for packaging with the movements. This change in attack from statistical limit-setting to individual consideration of the movements is based on the fact that the movements do not exhibit uniform performance characteristics; this makes statistical evaluation, except on the basis of a very large sample, rather difficult and of questionable value.

2) Packaging of the movements, with accessories, instruction and calibration sheets in accordance with the prototype package and its modifications already submitted to and approved by your project engineers.

It is estimated that phase II, J-F, will require six weeks to complete, contingent on the instruction sheet availability at the time packaging is scheduled to begin.

Phase III, J-F

1) Completion of a report evaluating the J-Feder movement and accessory performance under the conditions tested and covering the details of operations conducted during the entire J-Feder program.

It is estimated that Phase III, J-F, should be completed simultaneously with the packaging outlined in Phase II.

b) 24-Hour Delay Mechanism

Phase I, 24-Hour

- 1) Continue the comparative performance evaluation of Convalube "A" and FA #434 lubricants at low temperatures in the existing 24-hour assembly, to determine if and at what temperature one demonstrated a clear-cut supremacy over the other. At -40°F this condition has not yet been established. The original outline for testing, dated December 4, 1953, included both the dry state and "Molykote" lubricant; the dry state is being continued as a reference, since many investigators have confirmed the fact that this is the condition yielding best results at low temperatures. Molykote has been dropped from the agenda because it is extremely difficult to place properly in the movement.
- 2) Concurrent with (1) above, continue the testing of various gasket materials and sealers for their applicability in the most probable environments of use, i.e., in solvents, fuels and lubricants, and underwater, to determine the best material or at least the best compromise material for the purpose.

It is estimated that Phase I, 24-Hour, will require 1 month to complete.

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April 30, 1954

Phase II, 24-Hour

- 1) Depending on the results obtained from the Phase I lubrication tests, prepare the test lot for further evaluation runs by overhauling as necessary and relubricating with the oil chosen for the program. Should this oil be FA #434, authorization would be given New Haven Clock and Watch Co. to relubricate the remaining 900-odd movements of the developmental lot.
- 2) Depending on the results of Phase I gasket tests, authorize Thomaston Special Tool Company to either complete the production of the presently specified gaskets or procure another material and produce the necessary gaskets.
- 3) Incorporate the findings of Phase I into the specifications and complete the tentative specifications for the movement, case and accessories. These tentative specifications shall then be closely reviewed by Arthur D. Little, Inc., New Haven Clock and Watch Co., Thomaston Special Tool Company, and your project engineers.

It is estimated that Phase II, 24-Hour, will require six weeks to complete, with the exception of the review of the specifications by those parties concerned. No estimate is offered regarding the time required for this latter item.

Phase III, 24 Hour

1) Concurrently with the execution of the latter parts of Phase II, conduct timing tests of the entire test lot, using the lubricant chosen by Phase I, at various temperatures from the established low to +160°F. Treatment of the data obtained from these tests will be by statistical means and the evaluation will be as outlined by Mr. R. G. Brown's addendum to H. F. Knight's memorandum of December 4, 1953.

It is estimated that Phase III, 24-Hour, will require 10 weeks to complete.

Phase IV, 24-Hour

1) Concurrently with the execution of all other phases, the drawings will be made reflecting latest design changes in the movement, case, accessories and packaging. The final photolith copying of the drawings will not be done, however, until the completion of all phases and the acceptance of the developmental lot.

It is estimated that Phase IV, 24-Hour, will require three months, not including the time required for photolith copying.

Phase V, 24-Hour

1) At the completion of the timing tests outlined in Phase III and their evaluation, the test assemblies will be overhauled as neces-

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	1 1	torage tests. De maintained Droject engine	It is higher between ers during a maximum f	this phase to ield usage a	that a very personal property of the personal pe	aximum usage an ery close liais rsonnel and you hat your knowle conditions be	on r
	It is plete		at Phase V,	24-Hour, wi	ll require	two months to	com-
	Phase	VI, 24-Hour					
	the speci reac	AB mechanism s fications. T	should be re This should concerned b	eady for a figure be accomplished accomplished by the contract of the contract	nal and con hed and an ization is	ting and evalua mplete review o agreement shou given for the s.	of ald be
		s estimated the components,				he final assemb e.	• , ,
	Phase	VII, 24-Hour					
]	Jpon delivery backaging of trill be accomp	he AB assen	ably, its acc	essories a	es, the final und instruction	mit- D
		s estimated th	nat Phase V	I, 24-Hour w	ill requir	e three weeks t	60
	Phase	VIII, 24-Hou	<u>r</u>				
	7		pecific atio			luation of the nd Specificatio	
		s estimated the mplete.	at Phase V	III, 24-Hour,	will requ	ire three month	IS
Re	ports						
	etween		• pe	ersonnel and	your proje	be maintained ct engineers, i e following bas	
		atus Reports tted at the e				other cases, s	sub-
		nterim reports the conclusi				s reports submi ly outlined.	tted
		ne Final Repor Inal Specifica			history o	f the program w	rith

Personnel

, will be in charge of the program for
, and it is understood that he will look to
for general direction on your behalf. Formal reports and matters of policy shall be under the direction of requests for funds, if necessary, shall be approved by The Review Board here will exercise review powers as necessary during the program.

Consideration

The following cost estimate is based on both the experience gained during the program to date and our best estimate for the requirements of the program continuation. No allowance for contingencies, other than those mentioned herein, has been made, since no realistic assessment of difficulty and unforeseen delays and costs can be made at this time.

Labor (12 months @ \$568) Overhead @ 74% Materials and Equipment Travel and Subsistence . Packaging Materials *Sub-Contracts	•	•	•	•	•	•	•	•	•	•	•	5,043 725 750
Total											4	19,834
Fee @ 7%											_	1,366
Total											Ş	21,200

Labor Breakdown per month:

• • • • • • • • • • • • • • • • • • • •	Rate	% Time	Amount
Project Supervisor	5.96	10	\$86.00
Project Director	3.97	20	114.00
Mechanical Engineer	3.12	30	135.00
Draftsman	2.84	40	164.00
Technician	1.93	25	69.00
Total			\$568.00

^{*}As per quotations of Thomaston Special Tool Co., dated 30 Jan 1954 and New Haven Clock and Watch Co., dated 21 Jan and 6 April 1954, and best estimate for re-working.

Very truly yours,

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		J	anuary 18, 1954	·
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)
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		Re: 58214-AB		
		QK-15-529	,	;
	În reference	to the attached memorandum f		STA
	to	dated January 14, 1954, ree for AB Case, this is to add	e: Revised	STA
	two (2) of th	e items described therein are today under separate cover.	e being trans-	1 4 7 4
		Yours very trul	ly,	e I
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	Thomaston Special T			•
	271 East Main Stree Thomaston, Connecti			
•	Attention of			STAT
	Gentlemen:			
		C-58214-AB		
	This will and 2 in your quotat	serve as formal acceptance tion letter of October 15th	e of items l	
	1. Adapter	unit cost in 1000 lot tooling	\$1.60 each \$110.00	
	2. Cocking de	vice unit cost in 1000 lot	\$.40 each	
	given in your letter \$850.00, we would ap the unit cost stated fact that since the have developed and h	s the quotation for the post r as \$1.40 each with tooling ppreciate a review and conf i. This is requested as the time of your original quot have accepted a new design hange in the amounts quoted	ng costs of firmation of me result of cation, you for a starter	
		Very truly yours,		¢,
	87	<u>)</u>		STAT
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		n is called to rep		·	
	Cloc	ck Delay Mechanism H. A. Miller, 24 Naval Mine Depot	July 52		
I :	This repo AD - 10,847. In cas in this report, tran	ort can be ordered se you should find nsmittal thereof t	any matters of	interest	
			Yours very t	ruly,	11 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
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	•	C-58214-AB QK - 15-529	1
		411-121	CTA-
			STA
	Enclosed please find	duplicate copies of our lette	er to
		ι Watch Company summarizing οι	i
			ir
	discussions there on	May 19, 1953.	
	•	Volume to the same to 2	· ·
		Yours very truly,	1
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	ST
May 11, 1953	
	S1
Re: QK-15-529 58214-AB	
Enclosed is a memorandum of May 5th by Mr. with	ST
respect to this work order. Unfortunately we are again faced with a major difficulty on this project. writer plan to visit the New Haven company on or about May 19, the earliest date which could be obtained.	ST
While we will make every effort to reactivate and accelerate this program at New Haven, we will take all possible steps to assure continuance of the program even if we are forced to sever relationships with New Haven. Among others, the possibility of finding a suitable instrument firm which could rework parts supplied by New Haven will be considered. Since your representative will be present at the meeting in New Haven, such possible alternatives will be firmed up after establishing our future relationship with this company.	
Yours very truly,	
	STA
/ae	
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	Q ^y	Release 2011/08/22: CIA-RDP78-03642A002500040004-6 Fring Klev.,	Cl.
			STA
	•	March 25, 1953	
·			STA
		Re: QK-15-529 58214-AB	
	above case. It appatts attain some action momentum, we placed	candum of March 23, 1953 with respect to the pears that we finally are beginning to by New Haven. In the interest of keeping with them a purchase order for the move-their estimate was not detailed as requested.	
	however, they were	that New Haven did not quote a fixed price, informed that any upward revision of the equire our prior approval.	
		Yours very truly,	
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Enclose:	V	
memorandum by Testing of Clockwo	d you will find two receipts for two copies of a entitled "Progress Report on Temperature ork". These memorandums were transmitted to your	S
office by	on February 25, 1953.	;
We should returning it as so	ld appreciate your signing original receipt and oon as possible. The carbon copy may be retained	•
for your files.		
	Very truly yours,	
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	February 13, 1953	
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Enclosed memoranda of February 9 with New Haven Watch and Clock Companyand Thomaston Sindicate that at last some progress is being made particular, that work at New Haven can be acceled. With respect to the cocking plug design Company, it should be mentioned that the main distribution's design is the use of a bayonet instead with the case. Unless there were reasons which would feel the bayonet design to be preferable if and lower cost.	Special Tool Company de. It is hoped, in erated soon. gn of the Thomaston ifference with Mr. of a screw connection we have not foreseen. we	Sidire.
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